Serial No.: 10/034,852

Docket No.: UNI 0041 PA/40809.57

Amendments to the Claims

1-18. (Canceled)

19. (Currently amended) A coated machine tool comprising a multilayer wear resistant coating applied to a base material of said machine tool, said coating comprising a relatively hard underlayer and a chemically inert rare earth oxide overlayer, wherein:

said relatively hard underlayer is formed over said base material of said machine tool and comprises at least two layers;

one of said layers of said underlayer comprises a metal and is formed over said base material;

another of said layers of said underlayer comprises a metal nitride, metal carbide, or metal carbo-nitride and is formed over said metal layer;

said metalrare earth oxide overlayer is formed over said underlayer and said overlayer constitutes the outermost layer of the coated machine tool; and

said metal-rare earth oxide overlayer comprises a rare earth oxide everlayer that exhibits positive free energies of reaction with titanium.

20. (Canceled)

- 21. (Previously presented) A coated machine tool as claimed in claim 19 wherein said rare earth oxide comprises an oxide of scandium
- 22. (Previously presented) A coated machine tool as claimed in claim 19 wherein said rare earth oxide comprises an oxide of lanthanum.
- 23. (Previously presented) A coated machine tool as claimed in claim 19 wherein said rare earth oxide comprises an oxide of yttrium.
- 24. (Currently amended) A coated machine tool as claimed in claim 19 wherein said rare earth oxide overlayer comprises an oxide of zirconium.

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- 25. (Currently amended) A coated machine tool as claimed in claim 19 wherein said rare earth oxide overlayer comprises an oxide of hafnium.
- 26. (Currently amended) A coated machine tool as claimed in claim 19 wherein said rare earth oxide overlayer comprises an oxide of niobium.

27-46. (Canceled)

47. (Currently amended) A coated machine tool comprising a multilayer wear resistant coating for application to a base material of said machine tool, said coating comprising a relatively hard underlayer, an yttrium oxide overlayer, and an interlayer between said underlayer and said overlayer, wherein:

said relatively hard underlayer is formed over said base material of said machine tool; said metal-yttrium oxide overlayer comprises an oxide of a first metal and is formed over said interlayer and said overlayer constitutes the outermost layer of the coated machine tool;

said interlayer comprises first and second components;

said first component of said interlayer comprises yttriumsaid first metal;

relative proportions of said first and second components of said interlayer are graded across said interlayer such that a quantity of said <u>yttrium</u> first metal-in said interlayer increases from a side of said interlayer adjacent to said underlayer to a side of said interlayer adjacent to said overlayer; and

said yttrium oxide overlayer exhibits positive free energies of reaction with titanium.;

—a quantity of said yttrium in said interlayer increases from a side of said interlayer adjacent to said underlayer to a side of said interlayer adjacent to said overlayer.

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